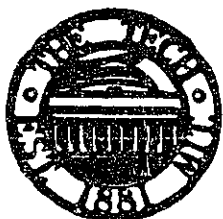


The Tech



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. D V. NO. 35

CAMBRIDGE, MASSACHUSETTS, TUESDAY, OCTOBER 18, 1955

5 CENTS

Senior Class Plans Insurance Benefits For Reunion Fund

The Class of 1956 has entered into an agreement with Mr. Stanley W. Turner '22, a representative of the Provident Mutual Insurance Company, by which the dividends earned by life insurance policies sold to members of the class will accrue to the class's 25th Reunion Fund. The policies, in \$5,000 and \$10,000 amounts, have been approved by the Alumni Association as a manner of raising funds, although the Reunion Fund itself is completely separate from the Alumni Fund.

Under the schedule of premiums presently in use a 22-year old student would pay an annual premium of \$99.25 for a \$5000 policy. The dividend at the end of the first year would be \$13.15, which would be turned over to the Institute for investment along with other Institute funds. Succeeding annual dividends would be returned to the Institute for the first twenty years (for the first ten years if a \$10,000 policy), and after this period would be sent to the policy holder. If the dividends are invested regularly at, say 3% at the end of 20 years the accumulated dividends and interest would amount to \$782.25.

The dividend accumulation and interest quoted are for illustration only based on the insurance company's 1954 schedule and are not guarantees or estimates for the future. Whenever the policy lapses due to failure to pay the premiums, dividends cease. Upon death of the policy holder, assuming the policy has been kept up, the beneficiary receives the principal.

Please address all questions to Ollie Johns, 119 Bay State Road, or Mr. Turner at CA 7-0456.

Selective Service Test November 17; November 1 Application Deadline

The Selective Service System is offering on November 17, 1955, the first College Qualification Test for the present academic year. The deadline for application is November 1st. Applications are available in Room 14-S136.

All students who are eighteen and have registered with the Selective Service System are eligible to take the test. It will be to the advantage of eligible Freshmen to take this first examination because the MIT Administration is cancelling Freshman classes during the morning of November 17. The next test, to be held on April 19, 1956, falls on a holiday. It is also an advantage to have your test score as soon as possible.

Students who wish to be deferred under the provisions of the Selective Service System must take one of the College Qualification Tests and receive a score of 70 or higher or be at a certain level scholastically as a full-time student (42 hours for freshmen; 45 hours for all other students). It is important that each student know his own test score, which may be obtained by asking the Local Board personally. This information is not given to anyone else and will not be available until at least a month after the date of the test.

While a test score of 70 or higher may be the criteria by which a student is deferred, also eligible for deferment are second-year students who have been in the upper-half of their class during the preceding academic year, third-year students who have been in the upper two-thirds of their class during the preceding academic year, and fourth or fifth-year students who have been in the upper three-fourths of their class during the preceding academic year.

Rules pertaining to members of the Freshman Class provide for deferment in Class I-S or Class I-SC until the end of the academic year, preceded by a I-A classification and a physical examination.



Students line up for Junior Prom Tickets, Wednesday, Oct. 12. Tickets went on sale the following morning at 9 a.m.

Seventy-Five Students Spend Night Lined Up For Junior Prom Tickets

by Robert Soli '58

Any outsider who might have entered the main lobby of Building 10 last Wednesday night must have thought the housing situation at the Institute had reached a crisis. He would have been wrong. The crowd of lounging figures was only a group of anxious underclassmen in the traditional Junior Prom ticket sales line-up.

All of the approximately seventy-five people present in the lobby were busily occupied.

Several bridge games were being played; some people were trying to study; others were reclining on cots, sleeping bags, blankets, and on the bottom of tents; one chess game was

going, and many were just standing around talking. As a matter of illustrating the personalities of some of the people present an incomplete count was taken of articles these people brought with them. Included in this count were 8 cots, 5 decks of cards, 1 bass ukulele, 3 portable radios, 1 deskpen, 3 sleeping bags, and 4 of the ever present slide rules.

Why Were They There?

Opinions of those waiting varied greatly when asked why they were staying at the Institute during a holiday.

James Friedman '58 stated "that the house thinks it is entitled to some of my time now and then, and that everyone at the house said that I have a lot to gain by staying here, so—"

John Irons '59 said, "You should know why I'm here," and then added parenthetically, "although I wonder why I'm here myself." He stated that he took it for granted that this would be one of his pledge duties. His parting statement was, "I never figured on anything like this before I came to college."

Mike Drew '59 complained, "My legs ache, my knees ache, this floor sure isn't the most comfortable one around." Another trouble stated by Drew was, "It's the lack of women here that makes it hard." He suggested that in the future TCA should provide food to those waiting.

J. P. NOTICE

There are approximately a dozen tables available to the general student body for the Junior Prom on November 4, 1955. Tickets will be on sale in the lobby of Building 10 on Wednesday, October 19 from 10:00 a.m. until 2:00 p.m.

Franklin Institute Praises Huffman

Assistant Professor David Albert Huffman of the Electrical Engineering Department was among eleven scientists in various fields honored at the annual Medal Day ceremonies of the Franklin Institute in Philadelphia last Saturday. Seven Americans, three Britons and a Frenchman received the various awards.

Professor Huffman received the Louis E. Levy medal for what was termed "his outstanding paper on 'the synthesis of sequential switching services'." He received a Bachelor's degree in Electrical Engineering and a Master of Science Degree from Ohio State University and finished his Doctorate at the Institute in 1953.

Human Relations Educator Explains Position, Plans To Remove Restrictive Clauses

"All discriminatory clauses that exist at MIT fraternities are due to national constitutions," says Stephen Weisskoff '57, Human Relations Educator of IFC. The major problem faced in the removal of such clauses is the nationals, who for many houses supply the necessary financial aid. In the nature of a national it is obvious that there are going to be chapters in the south, such houses are strongly against the removal of restrictive clauses, and it is against the nature of a national to break up, even over such a major issue.

Committee Named On Burton Housing

At last Wednesday's meeting of the Burton House Committee the motion was presented, seconded and carried that there should be a new temporary subcommittee, the Burton House Dormitory Development Committee, which would study problems concerning future dormitory developments at the Institute in general, Burton House in particular. Lewis Cohen '58 and Les Dirks '58 were named co-chairmen. The subcommittee will have as many members as Dirks and Cohen deem necessary. It will study one, and only one, problem at a time. All problems will be assigned to the subcommittee by the full Burton House Committee. The first problem was presented to the newly-formed committee immediately after its creation.

The problem assigned: The extension of the cooperative operation from the 410 to the 420 section, with the setting up of an experimental model in the 420 section envisioned in the near future.

In addition to creating the Dormitory Development Committee, the Burton Committee elected a Judicial Committee Chairman, Jory Shlenger '56. Reports were received from the various subcommittees. A few, e.g. the Hobby-Shop and Dark-Room committees, reported plans for expansion. Their fate will be uncertain until Dormcom approves the Burton House Committee budget.

EAST CAMPUS DANCE

The East Campus House Committee will present its first informal dance of the term this Friday evening October 21 at 8:00 p.m. in Walker Memorial's Morris Hall. Music by Don Ellis and his band. Refreshments will be served. Tickets are one dollar per couple and are available at the door.

Prof. Whitman Secretary-General Of Recent Geneva Atoms Congress

"We can be assured that the peaceful applications of atomic energy can and will be developed under adequate safeguards for human health and the future of the race." This is the feeling of Prof. Walter G. Whitman, who recently returned to the United States from the International Conference on the Peaceful Uses of Atomic Energy. Prof. Whitman, who heads the Institute's Chemical Engineering Department, served as Secretary-General of the two-week Geneva Atoms for Peace Conference held last August.

In a CBS radio talk after the completion of the conference, Prof. Whitman described the meeting as "a most stimulating and exciting experience" and stated that it had "opened our eyes to the prospects of benefit to man, . . . demonstrated that the nations are eager to co-operate in realizing those benefits, and . . . shown that their co-operation—through the United States—holds bright promise for the future."

The conference was originated last December when the United Nations General Assembly unanimously resolved that Secretary-General Dag Hammarskjöld should call a scientific congress to exchange information on the peaceful uses of atomic energy. Early in February Hammarskjöld appointed Prof. Whitman Secretary-

General of the conference, with the responsibility for its planning and operation.

Although the conference itself ended in August, Prof. Whitman's work will not be completed until the many papers and discussions of the conference have been edited by the United Nations staff and printed in several volumes in each of four languages. He expects to return to the Institute on a full-time basis next January.

During the course of the six months prior to the Geneva meeting, Prof. Whitman saw the conference develop in both size and significance from the expected relatively small international scientific congress to a meeting of fourteen hundred delegates representing seventy-three nations.

During the months of preparation for the conference Prof. Whitman also had what he describes as "a rather unique opportunity" to observe the development of international co-operation. The significance of this experience can be illustrated by three elements of the preparation.

First of all, the planners had to eliminate the uncertainty and "let's wait and see" attitude held by the major nations when the conference was originated. By talking directly with the responsible individuals of

(Continued on page 6)

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Tuesday, October 18, 1955

No. 35

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Calendar of Events

WEDNESDAY, OCTOBER 19

Varsity Soccer Team. Match with Tufts College. Briggs Field, 4:00 p.m.
 Young Republican Club. Smoker for new members and those interested in the Club. Speaker will be Mr. Elmer Nelson, Chairman of the Republican State Committee. Room 3-070, 5:00 p.m. Refreshments will be served.
 Chemistry Department. Harvard-MIT Physical Chemistry Colloquium: "The Optical Properties of Helical Macromolecules." Professor William E. Moffitt, Harvard University. Room 6-120, 8:00 p.m.
 MIT Bridge Club. Match: MIT vs. Harvard. Baker House Lounge, 8:00 p.m.

THURSDAY, OCTOBER 20

Aeronautical Engineering and Mathematics Departments. Fluid Mechanics Lecture: "The Growth of Secondary Circulation in Frictionless Flow." Professor William R. Hawthorne, Hunsaker Professor of Aeronautics, 1955-56. Room 2-239, 3:00 p.m.
 Physics Department. Colloquium: "Problems of the Origin of Cosmic Rays." Professor Bruno B. Rossi, Physics Department. Room 6-120, 4:15 p.m.
 Lecture Series Committee. Film: "I Was a Communist for the F.B.I." Room 10-250, 5:00, 7:30 and 9:30 p.m. Admission, 30 cents.
 Architecture and City Planning Department. Lecture: "Plastics in Housing." Mr. Marvin E. Goody, Architecture Department. Exhibition Room, 8:00 p.m.

Institute of Radio Engineers—Boston Section and Audio Chapter. Joint Technical Meeting: "Acoustical Design of the Kresge Auditorium." Professor Richard H. Bolt, Professor Robert B. Newman, and Mr. Gabriel Farrell, Jr., of MIT. Kresge Auditorium, 8:00 p.m. Open to the public.

FRIDAY, OCTOBER 21

Mechanical Engineering Department. Seminar: "A New Examination of the Concepts of Adiabatic-Wall Temperature and Heat-Transfer Coefficient." Professor Tau-Yi Toong, Mechanical Engineering Department. Room 3-270, 3:30 p.m.
 Orthodox Christian Fellowship. Fall Acquaintance Party. Ballroom and folk dancing; refreshments. Burton House, 420 Lounge, 8:00 p.m. All Orthodox students and faculty invited. Admission, 50 cents.

SATURDAY, OCTOBER 22

Varsity and Freshman Soccer Teams. Match with Brown University. Briggs Field, 10:30 a.m.
 MIT Bridge Club. Duplicate Tournament. Baker House Cafeteria. 1:30 p.m.
 Field Day Football Team. Sophomores vs. Tabor Academy. Briggs Field, 2:00 p.m.
 Varsity and Freshman Cross Country Track Teams. Meet with University of New Hampshire. Franklin Park, 2:00 p.m.

SUNDAY, OCTOBER 23

Freshman Sailing Team. Freshman Duodecagonal. Sailing Pavilion, 10:00 a.m.
 Organ Recital by Mr. Melville Smith, Director of the Longy School of Music, Cambridge, assisted by a string quartet. Program: A Sonata for Organ and Strings, by Mozart; Choral Preludes from the Smaller Catechism, by Bach; and Quintet for Organ and Strings, by Soler. Chapel, 3:00 p.m.

MONDAY, OCTOBER 24

Metallurgy Department. Robert S. Williams Lecture I: "Corrosion Cracking." Dr. U. R. Evans, Cambridge University, England. Room 35-225, 4:00 p.m. Part II will be given Tuesday at the same time and place.
 Meteorology Department. Seminar: "The use of Orthogonal Polynomials in Short Range Precipitation Forecasting." Mr. William D. Sellers, Department of Meteorology. Room 12-182, 4:00 p.m.
 Mathematics Department. Colloquium: "Integrals." Professor J. C. Burkill, Cambridge University, England, Institute for Advanced Study, Princeton. Room 2-282, 4:00 p.m. Will also be held on Tuesday and Wednesday at the same time and place.
 Food Technology Department. Food Industry Seminar: "Patents and Patent Law." Mr. Melvin R. Jenney, Patent Counsel, MIT. Room 16-310, 2:00-4:00 p.m.

WEDNESDAY, OCTOBER 26

Physics and Mathematics Departments. Operations Research Seminar: "Discrete Markov Processes." Dr. R. W. Sittler, Project Lincoln. Room 2-239, 3:00 p.m.
 Freshman Soccer Team. Match with Harvard University. Briggs Field, 3:45 p.m.
 Biology Department. Colloquium: "An Investigation by Electron Microscopy of the Tanning of an Insect Cuticle." Professor Richard C. Sanborn, Biology Department. Room 16-310, 4:00 p.m.

EXHIBITS

An exhibit in commemoration of the 10th anniversary of the United Nations will be on display in the Lobby of Building 7 from October 24-30.

CALENDAR OF EVENTS

Under a new plan of publication, the Calendar of Events is distributed to the staff through the Institute's mails each Wednesday, with announcements for the following eight days. Notices should be in the editor's office, Room 7-204, not later than noon on Thursday prior to the date of publication. Material for the Calendar of October 26 through November 2 is due October 20.

letters

To the Editor of *The Tech*:
 Dear Sir:

It is absurdly easy to attempt to wreck a structure; one needs only the blunt tools of chisel and hammer wielded by a materialistic boor. But the implements requisite for the erection of such an edifice are the fine equipment of an artisan, in fact of many such scholars working in unison.

Certainly when one has achieved the privilege of living and reaping the fruits of the culture represented within an institution such as MIT, he is only too well aware of the toil and sacrifices of the scholars who make it great. And recognizing the aesthetic values of the structure, he seeks to lay new stones, raising it higher instead of attempting to chip out existing mortar.

Perhaps at times the edifice appears drab due to the fingerprints of those who, not seeing its beauty, try through their senses to feel that which makes it great. At last, in desperation and futility, they seek to tear it down, for it is something they cannot understand.

There are those at Tech who "hate the Institute" consciously or subconsciously. They do this because they are in a culture they cannot fathom. Van der Waal's forces would still be a mystery to them were they to rub their fingers against the forces for cons.

Of course they condemn the Institute's standards. But the existing mortar is sound.

Ralph Warburton '57

William R. Leitch '56

October 2, 1955

To the Editor of *The Tech*:
 Dear Sir:

Hurrah for your editorial "Queen of the Glove Fight". You are absolutely right. We don't want anyone to know (keep this under your hat) that Tech "men" go out with girls and have fun. We're all tools.

J. F. Herminghaus '57

P. S. I'm transferring to Michigan.

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OCTOBER 24 and 25

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by Berthold Lippel '56

For the fifth time that day, I bent down wearily to tie my bicycle to a fence. The whole laborious process: secure the steel rope, attach the forbidding-looking lock, pocket the key. Suddenly, with startling clarity, the thought occurred to me what a fantastic and incredible amount of waste there exists in all our precautions against dishonesty and stealing.

Let us count all the theft prevention gadgets and precautions we use or can see used in a lifetime, an operational approach to the evaluation of the efficiency of social immorality, as the social science department would put it.

To wit: all the locks and all the keys in existence. The time wasted opening and locking innumerable doors every single day. Not only doors, but also typewriters and luggage and pianos and windows and cars, and so forth, ad infinitum.

To wit: all the admission tickets and slips and checks, and the many other ways man uses to insure that his fellow creature will not slip in somewhere or use something without paying for it.

To wit: the army of people whose life is devoted to check on our honesty. Railroad conductors and tax collectors and movie ushers and policemen and insurance investigators, and thousands more.

With a little effort, one could go on and on and establish quite a long list in the same vein. How frightfully inefficient it all seems suddenly in this new perspective! How incredible it strikes one to see a whole society permeated with the mechanics and worries and gestures of guarding its possessions from the acquisitive dishonesty of a relatively few in its midst.

Imagine all the savings that could be made if people were honest. And more than the savings—the marvelous convenience and peace of mind of it all! No more keys, no more locks, no more anxiety. A new sense of dignity above all, because the controls of dishonesty cast the shadow of doubt upon every one of us.

The only problem is how to achieve such a blissful state of affairs. Quite a problem indeed! But let's see . . . why does a person steal? Most of the

time for money, is it not? Maybe the money saved by universal honesty could be distributed among the thieves, and thus make it superfluous for them to steal. Indeed, this is not nearly as silly as it may sound. If one takes the law enforcement budget for a city like New York, and divides it by the annual number of criminals there, one arrives at a respectable annual income per thieving capita. So, the thieves wouldn't have to steal, the honest people could stop locking up things, and everyone would be the happier for it. Maybe such a common-sense engineering analysis will succeed where the eighth commandment failed.

Excuse me for interrupting my utopia. Since it is still around the corner, I must take leave and go lock up my bike for the night.

Dean Baker's Son To Visit Antarctic

David Baker son of MIT's late Dean of Students Everett Moore Baker is Communications Officer on a Navy-sponsored expedition to the Antarctic. He will leave from New Hampshire, October 26, with an advance group of the expedition.

This advance group will prepare bases at Little America, Ross Island, and McMurdo Sound for the main party leaving the United States approximately six months later.

This expedition is being conducted as a part of the third International Geophysical Year, 1957-58. This year is designed to get the answers to a large number of new questions about our planet that have accumulated in the past quarter century. As a part of the coordinated plans for this year three chains of weather stations, strung out on three meridian lines from the Arctic to the Antarctic, will chart the circulation of the atmosphere. Other outposts in the Arctic and Antarctic will record intense electromagnetic activity that centers around the earth's magnetic poles and generates the beautiful displays of the aurora borealis and australis.

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the lounge

by Paul W. Abrahams '56

The Institute is now producing "Whole Men". No longer is the Charles River Manufacturing Company turning out a motley assortment of feet, heads, and arms; the latest model is fully integrated, equipped with humanities and power steering, and ready to take his place among the grey-flannelled riders of the 7:52 local from Stamford to New York. No longer does the MIT graduate mutter something to the effect that "they told me that everything can be derived from $F=ma$ " when the discussion turns to the social characteristics of the earlier Egyptian dynasties. He can now discourse upon non-Western literature or the aesthetics of the twelve-tone system with ease and confidence.

We have been told that the engineer of today must possess a broad social view. When the electrical engineer designs a circuit, he no longer restricts his questions to such matters as whether it will work and how much it will cost. He now contemplates its possible traumatic emotional effects on the workers who will assemble it. When the civil engineer plans a railroad bridge, he cannot be satisfied when he is sure that the thing won't fall into the river. He must view the structure in a social perspective, considering whether it accurately reflects the cultural characteristics of his environment.

For better or for worse, we are part of this new generation of engineers. We can only speculate on what the representative of the old generation was like. Judging from the

calumnies heaped upon his narrow-minded viewpoint, his vision was bounded by the integral on the right and the derivative on the left. He had an acute allergy to anything resembling culture, and the mention of it would send him scurrying to a dark corner. He either could not or would not read a printed page unless it had either a graph, a numerical table, or an equation on it, and after a few years he stopped reading altogether. He was a mystery to his wife (how anyone would want to marry him we can't imagine) and after his sons discovered that an engineer was not necessarily someone who operated railroad trains, he became an enigma to them also. His principal redeeming trait was his habit of earning large sums of money. While others were attempting unsuccessfully to corner the stocks of a large corporation, he would become president of it. And of course he would contribute sizeable sums of money to his dear old alma mater.

Little has been said about the MIT that produced him. The present heads of state at the Institute are too preoccupied with "universities polarized about science" and such to bother mentioning what this place used to be like. The picture can only be reconstructed. We hear mentioned in an old school song the existence of a chapel—but the present silo is of recent origin. We hence might presume that during the old days, perhaps, prayers were offered to the God of Science in the Great Court, where the names of all her saints are inscribed. Humanities must have been

nearly non-existent, except for a required course in Economic Processes, better known among the instructors in the subject as Processing of Economists. The few humanities professors at Tech must have been looked down upon as strange and incomprehensible creatures of little practical value, and the terms "unpractical value" and "value" were of course equated.

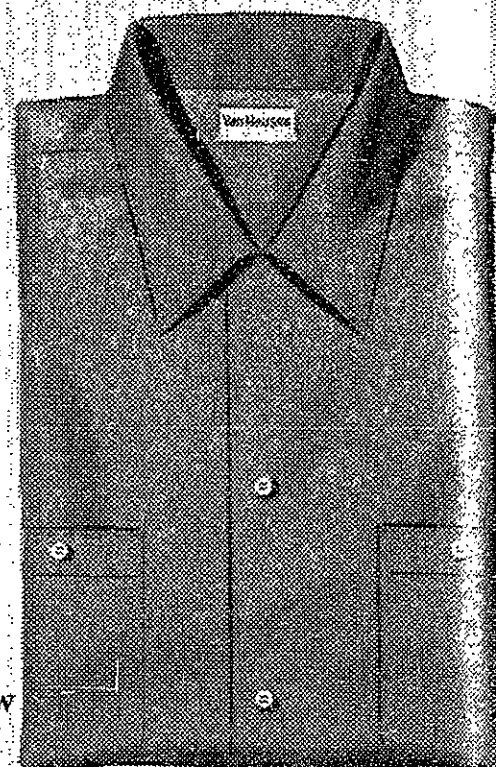
But now a new era has dawned, and a change has taken place in the status of the humanities professor. He is no longer merely a missionary to the savages, tolerated by the tribal hierarchy. He is now a respected member of the MIT community. His office is located in an air-conditioned building. His library is well-stocked and centrally located, while the engineering professors who formerly looked down upon him with disdain are forced to secure their books in the dark attics of Building 10. He no longer needs to hide when he kneels and bows five times daily in the direction of Harvard. No "Whole Man" is complete without the dose of culture which he injects, and he has become an indispensable part of the manufacturing process.

Where all this is leading to, we can only guess. With such strange and possibly cancerous growths as Course XXI sprouting in all directions, anything could happen. Perhaps, in not too many years, MIT will deal exclusively in the humanities, while Harvard will engage in the mass production of engineers. With the Charles River Manufacturing Company revamping its production line, who can tell?

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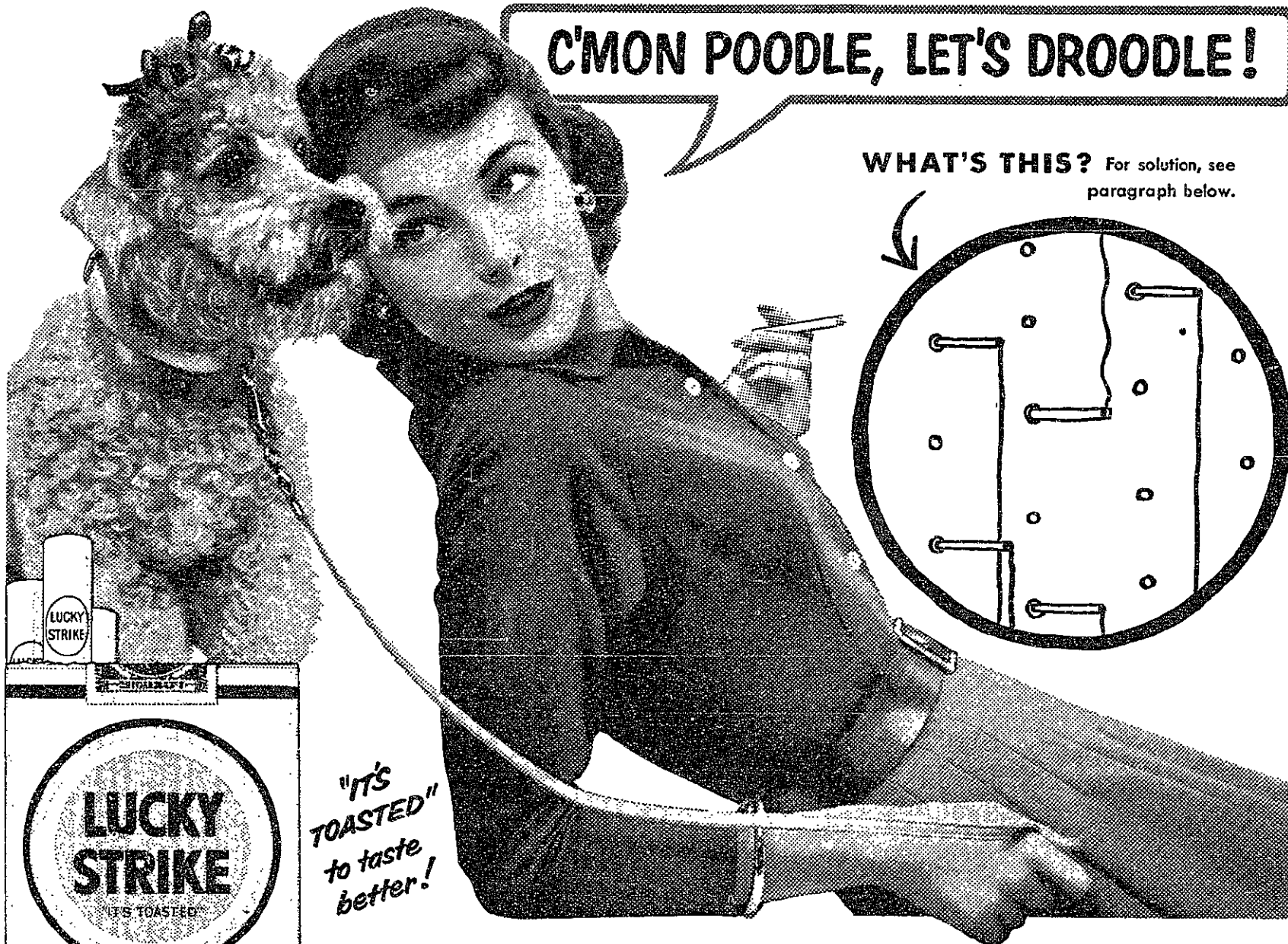
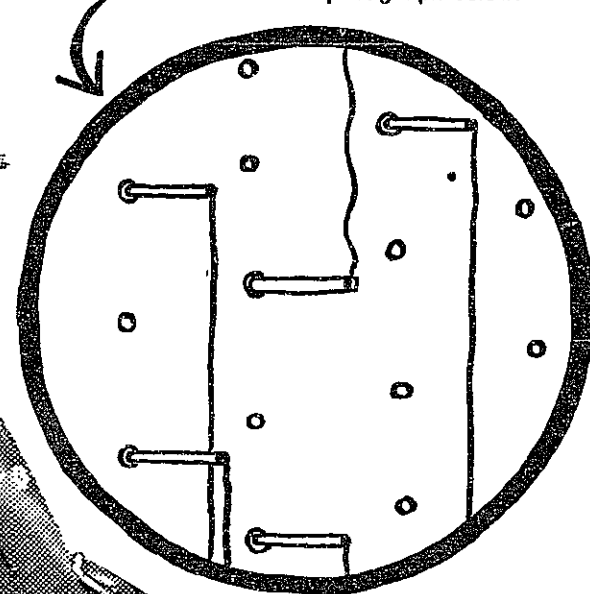


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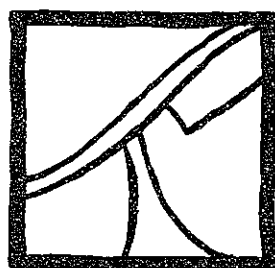
C'MON POODLE, LET'S DROODLE!

WHAT'S THIS? For solution, see paragraph below.

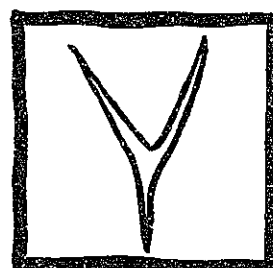


CONFUSION REIGNS in the Doodle above, titled: Switchboard operated by absent-minded Lucky smoker. Poor girl's been swamped by too many phone calls. But she isn't confused about better taste—she smokes Luckies. Luckies taste better, first of all, because Lucky Strike means fine tobacco. Then "*It's Toasted*" to taste even better... cleaner, fresher, smoother. Switch to Lucky Strike yourself. You'll say it's the best-tasting cigarette you ever smoked—and you won't have your wires crossed, either.

DROODLES, Copyright 1953 by Roger Price



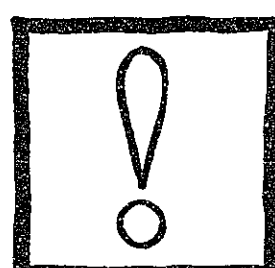
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beaver barks

by F. Helmut Weymar '58

In his announcement of the million dollar bequest to the Institute's athletic system, from the late David duPont '56, at the recent convocation in Rockwell Center, President James R. Killian, Jr. skillfully put into words what we have to be general student opinion as well as that of the administration. Dr. Killian, in making public the grant, stated, "This bequest emphasizing of tragedy in the loss of David duPont, while at the same time leaving us with a feeling of the deepest appreciation for his generosity, his foresight, and his expression as a student of affection for the school." Certainly one could not help but be filled with a feeling of gratitude to David duPont. Among those not fortunate enough to have known him, this feeling must have been accompanied by a curiosity as to the character and personality of the benefactor. He possessed intelligence, strong will, and leadership qualities. He was president of his living group, yet he was at the same time gifted with humility and understanding.

The student body certainly owes a debt of gratitude to David duPont, in that the bequest opens new and definite possibilities for improved athletic facilities. More important than these improvements, however, is the possibility that the publicity given the gift and the purpose behind it, will further raise the interest of the student body in the Institute's athletic system. We heard a reaction to duPont's gift which said in effect, "Fine—so David duPont had a million dollars to give to Institute athletics. What could I possibly do to match that?" We wish students would realize that it's neither their money, nor anything material, which often is lacking, but rather their interest in the athletic system. All the million dollar bequests in the world would not keep the Institute's whole athletic system from dying tomorrow, were the students to show no interest. We were as proud of our school as we could have been, when the student body voluntarily came through last spring with enough money to guarantee the lightweight crew a trip to the Henley Regatta. That spirit, however gratifying it may have been, was the exception rather than the rule, and was brought about by rare circumstances. Now that Dave duPont has provided student interest with a firm foundation, we hope the students will follow through with the structure which only they can provide. A suitable beginning to such a trend would be widespread student participation in deciding where the million dollars will go. A questionnaire and a suggestion box in Building 10 have been proposed for this purpose by the recently appointed Committee on Athletic Needs. At the risk of pressing our point, we reemphasized that the only way student interest can or will be served, is through active participation on the part of the students.

Dry Hopes For Intercollegiate Soccer Championship Drowned As Beavers Sink

After rolling over their first two opponents by scores of 5-0 and 9-0 respectively, the Beaver Varsity soccer team succumbed to a powerful Amherst squad Saturday, 3 to 0 at Amherst. The game, billed as the deciding contest as to which team would challenge Dartmouth for the New England championship, was played hard and fast all the way by both sides, and at no time before the third period was it obvious what the outcome would be. Amherst, having practiced under rainy conditions during the entire week preceding the game, were clearly ready for the miserable weather which was to decide the type of game to be played. With a steady thin rain and a strong shifty wind prevailing for the duration of the game, the home team worked well with short, low passes, keeping to a minimum the effects of the wind. Tech was seriously hindered by the delayed arrival of the two starting insides, Carols Gonzales '57, and Bernard Blaschitz '56, and by injuries sustained by left halfback and co-captain Pete "Leaky" Dyke '56 who seriously twisted his knee midway in the second quarter and had to watch

the rest of the game from the bench, and by high-scoring Cel Almeida '58, who played the entire second half with his ribs taped, due to a collision with an Amherst halfback.

The action started fast with both teams pressing but with neither gaining a distinct advantage, until late in the quarter, when a penalty was called on Tech goalie Rudy Segovia '58, for blocking out an Amherst forward with his body. Jeff center half Anderson blasted the subsequent penalty kick

out of the reach of Segovia to make it 1-0 at 16:00 minutes of the period. No more scoring occurred until 18:30 of the second quarter, when Amherst center forward Knowles booted the slippery ball through Segovia's outstretched hands from about eight yards out. The half ended with the score 2-0, Amherst. Neither team was able to score in the third quarter, with several Engineer threats fizzling due to wide shots. Amherst's backfield tightened up sufficiently in the fourth quarter to stifle the Cardinal and Grey offense. After pressing for the entire quarter, the Jeff offense clicked at 17:00 when right wing Hall scored with a beautiful shot from fifteen yards out, for the third and final Amherst goal.

Although the defeat does not totally rule out the possibility for the Beavers to win the New England Championships, it seriously hinders them in that both Amherst and Dartmouth must lose two games during the rest of their schedule, while the Beavers go undefeated. The next game will be against Tufts at Briggs Field, Wednesday afternoon, with Tech being heavy favorites.

J. P. QUEEN

Entry photographs for the Field Day-Junior Prom Queen Contest will be accepted all day Wednesday at the Booth in Building 10.

Tug-of-War Battle This Saturday, 1p.m.

A tug-of-war, the first official pre-Field Day event of the season will be held next Saturday afternoon at 1 p.m. at Briggs Field. This tug, first of three, will have no limit to the number of participants, but the following pulls will be limited to twenty-five men from each class. Micky Reiss '56, Field Day Chairman, commented, "The turnout for this event might be a good indication on how Field Day will go due to the spirit showed."

The class which wins this tug will be given the Purple Shaft along with the obligation of presenting it to the opposing class once in each of the two weeks prior to Field Day. The Shaft must be presented twice in these two weeks exclusive of which class possesses it by winning the first tug-of-war or capturing it via presentation from the other class. The class in possession of the Shaft at noon on Field Day shall be awarded one point in the final scoring. The final pulls of the tug-of-war will be held on Field Day with the winner of two out of three pulls receiving three points.

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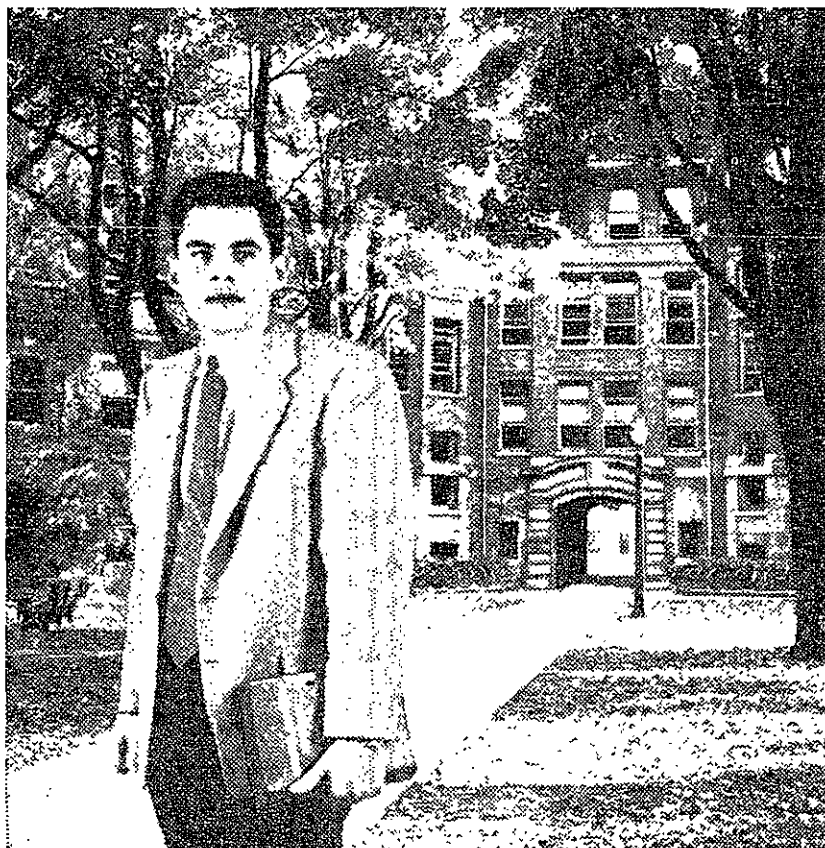
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Charlie Stickels asks:

Does Du Pont hire graduates who are draft eligible?



CHARLES A. STICKELS is currently working toward his B.S.E. degrees in chemical and metallurgical engineering at the University of Michigan. Mr. Stickels is past Editor-in-Chief of the *Michigan Technic*, vice-president of his student chapter of A.I.Ch.E., and a member of several honorary engineering fraternities. His editorial work has made him especially aware of contemporary employment questions facing engineering graduates.

John Oliver answers:



JOHN OLIVER, also a University of Michigan man, received his B.S. in Mech. Eng. in 1938. Right after graduation, he began working for Du Pont in the Engineering Section of its Belle, W. Va., plant. Following this came an assignment as Departmental Engineer in the Wilmington offices, and today John Oliver is again at Belle—this time as Assistant Plant Manager.

WANT TO KNOW MORE about working with Du Pont? Send for a free copy of "Chemical Engineers at Du Pont," a booklet that tells you about pioneering work being done in chemical engineering—in research, process development, production and sales. Write to E. I. du Pont de Nemours & Co. (Inc.), 2521 Nemours Building, Wilmington, Delaware.



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The answer to that is definitely "Yes!". Charlie, we've employed quite a number of college graduates with definite military commitments, sometimes knowing that they could work only a few weeks before reporting for active duty.

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Even if present employment is impossible, Charlie, we definitely recommend your talking with Du Pont's representatives—and those of other companies, too. The very least you'll gain will be valuable background and some contacts which may be of real benefit to you when you leave military service.

Whitman

(Continued from page 1)

the countries expected to be able to contributed the most to the meeting and by encouraging informal exchange of plans between these countries, the planners soon accomplished their initial goal.

The most vital element in the preparation was the recruiting of a group of younger scientists to become the actual planning and operating team for the conference. Early in May the members of this team began working together, nineteen men representing thirteen nations from both sides of the Iron Curtain. Directly assisting Prof. Whitman was Dr. Viktor Vavilov, who joined him from Moscow in April.

Of the many problems faced by the planning team, one of the most difficult was the selection of the papers which would be scheduled for oral presentation at Geneva, a problem which was particularly complex because the more than one thousand papers had been submitted by nations rather than by individuals. To Prof. Whitman and his associates, however, the most surprising feature of the resultant arguments was that they were not between United States nationals and Russians, but between physicists and chemists, or between biologists and metallurgists. The realization that co-operation and unity of purpose had so quickly been achieved made each of the planners not only far more optimistic about the ultimate success of the Geneva Conference but also proud of his membership in a team of civil servants of the United Nations.

Co-operation also was strongly evinced at the conference itself, with physicists, geologists, engineers, metallurgists, agriculturists, geneticists, health physicists, engineering designers, and many other professional groups each contributing. Also co-operating impressively were the members of the press, who, even in Russia (according to Dr. Vavilov), reported fairly and factually on the proceedings with a minimum of sensationalism.

Poets' Theatre Gives New *Le Misanthrope*


The performance of a new translation of Molière's *Le Misanthrope* will open the fifth season of the Poets' Theatre, Cambridge, on October 24. Mr. Richard Wilbur's version of the play, which is in iambic couplets, will be published simultaneously by Harcourt Brace.

Eustacia Grandin and Peter Davison will play the leading roles of Célimène and Alceste. Edith Owen will play Eliante; Sonia Grant, Arsinoé; William Morris Hunt, Oronte; and Jack Rogers, Dubois.

Edward Thommen, who has worked with Francis Fergusson and with Ouspenskaya, is director, and Thomas Whedon, manager.

Music has been composed for *The Misanthrope* by Paul Des Maris, instructor in music at Harvard.

The Misanthrope will be given at the Poets' Theatre Workshop, 24 Palmer Street, Cambridge, October 24-November 6, and at the Kresge Auditorium of the Institute, November 9-12. Tickets may be obtained by mail from the Poets' Theatre or by phoning TR 6-3964 (11-1, 3-5, 8-).



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Students will have an unusual opportunity to understand and absorb all aspects of Scandinavian culture as they will acquire a knowledge of the languages, will live for part of

the time with typical families and at folk schools, will meet Scandinavians of various backgrounds and interests.

An increasingly large number of American students are attracted to Scandinavian folk schools where they may carry out research in their particular fields of interests. A February field trip is scheduled for research and for travel in the three Scandinavian countries.

Estimates for the nine-month seminar including fee of \$800, trans-Atlantic travel from New York to Copenhagen and return, and field trips in Scandinavia are approximately \$1250.

Prof. Rona Speaks At ASME Dinner

On Tuesday, October 25th, the American Society of Mechanical Engineers will hold its first Student-Faculty Dinner of the year at 5:00 p.m. in the Miller Room, 3-070.

Professor Thomas P. Rona, Assistant Professor here at the Institute will be the main speaker. He will discuss the question "Should the Mechanical Engineer Specialize?"

Tickets will be available to members of ASME at Mechanical Engineering Headquarters, Room 3-174. The price, including all the roast beef you can eat, will be \$1.90.

There will be a discussion following the dinner.

Selective Service

(Continued from page 1)

ical examination, as well as a canceled Order for Induction. However, practically all Freshmen are too young for processing in this manner and will remain in Class I-A until the boards receive test scores and, in July, Form 109 in addition to a letter requesting Class 2-S deferment. Most New York State Boards are retaining students in Class I-A until they are old enough to be processed.

Forms 109, giving class standing based on work of previous year, not cumulative rating, must be filled out early each spring term by students desiring Class 2-S deferment. These forms or student deferment requests are not filed automatically, only upon personal request.

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What young people are doing at General Electric

Young engineer pioneers in design and sales of new tiny transistors

The germanium transistor—some smaller than the eraser end of a pencil and able to operate on a few thousandths of a watt—is probably one of the most promising developments in the electronics field today. It opens the way to new midget radios, TV sets flat enough to hang on a wall and many other exciting possibilities.

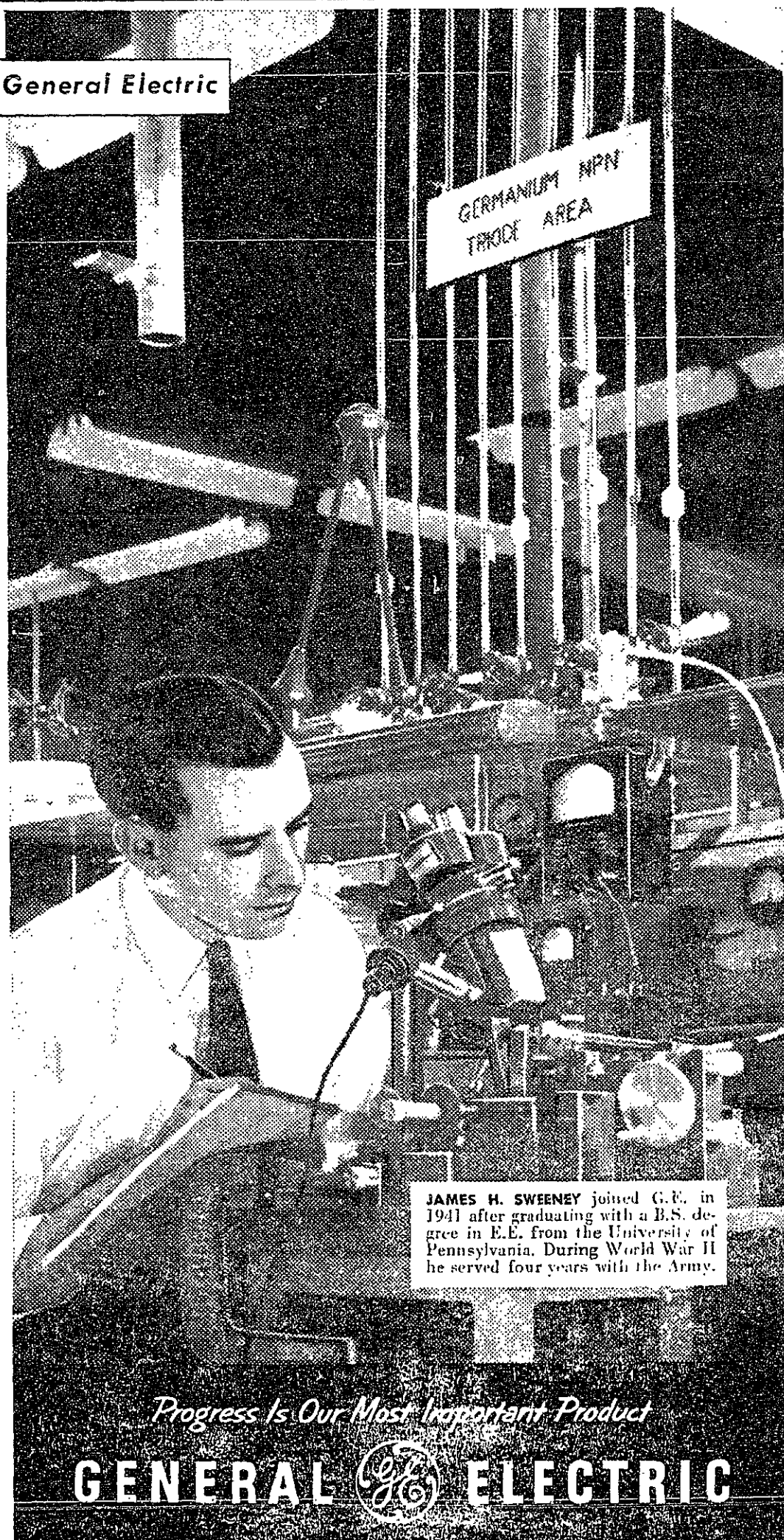
One of the men who helped design and perfect these tiny transistors—and the man who is now head of sales for all General Electric germanium products—is James H. Sweeney, Manager—Marketing, Semiconductor Products Department.

Sweeney's Work Interesting, Vital

As early as 1948, Sweeney was head of a group that studied the design and possible uses of germanium products. He gained national recognition for his work in developing and introducing these products to other industries, and when a new Semiconductor Products Department was formed in 1953, Sweeney was a natural choice for the job of marketing these products.

25,000 College Graduates at General Electric

When Sweeney came to General Electric in 1941, he worked in many different departments until he finally found the work he wanted to do. Like Sweeney, each of the 25,000 college-graduate employees is given the chance to grow, to find the work he does best, and to realize his full potential. For General Electric has long believed this: When fresh young minds are given the freedom to make progress, everybody benefits—the individual, the company, the country.



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JAMES H. SWEENEY joined G.E. in 1941 after graduating with a B.S. degree in E.E. from the University of Pennsylvania. During World War II he served four years with the Army.

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